AMERICAN JOURNAL

OF

DISEASES OF CHILDREN

EDITORIAL BOARD

CLIFFORD G. GRULEE, Chief Editor, Evanston, Ill.

OSCAR M. SCHLOSS, New York
FRITZ B. TALBOT, Boston
H. F. HELMHOLZ, Rochester, Minn.
A. GRAEME MITCHELL, Cincinnati
FRANCIS SCOTT SMYTH, San Francisco
HORTON R. CASPARIS, Nashville, Tenn.

VOLUME 59

1940

PUBLISHERS
AMERICAN MEDICAL ASSOCIATION
CHICAGO, ILL.

Medical
Wahr

CONTENTS OF VOLUME 59

JANUARY 1940. NUMBER 1

PAGE

Treatment of Pneumococcic Infections in Children with Sulfapyridine. Henry S. Christian, M.D.; Gilbert M. Jorgensen, M.D., and Catherine Ellis, A.B., New York 1

Dietary and Metabolic Studies of Eskimo Children With and Without Dental Caries, Including Studies of the Metabolic Balances of Calcium, Phosphorus and Nitrogen. Eli H. Siegel, Sc.B., D.D.S.; Leuman M. Waugh, D.D.S., and Maxwell Karshan, Ph.D., with the Technical Assistance of Clare Lowenberg, M.S., and Mary Segall, New York 19

Biochemical Studies of the Saliva of Eskimos Correlated with Dental Caries and the Occurrence of Salivary Calculus. Maxwell Karshan, Ph.D.; Eli H. Siegel, Sc.B., D.D.S., and Leuman M. Waugh, D.D.S., with the Technical Assistance of Mary Segall, New York 39

A Study of the Feet of Infants and Children. Allan Bloxsom, M.D., Houston, Texas 45

Weltmann Reaction and Sedimentation Rate During Rheumatic Fever of Childhood. Reuben I. Klein, M.D.; Samuel A. Levinson, M.D., and Philip Rosenblum, M.D., Chicago 48

Treatment of Impetigo Contagiosa with Rubber Containing 8-Hydroxyquinoline. Morton Seldowitz, M.D., Brooklyn 67

Modification of Smallpox Vaccination in Susceptible Infants: Use of Specific Convalescent Serum. Joseph Greengard, M.D., and Albert M. Wolf, M.D., Chicago 76

Pneumococcic Pneumonia of Type XIV in Children Treated with Specific Serum. Jesse G. M. Bullowa, M.D., and Morris Gleich, M.D., New York, with Assistance, in the Statistical Study, of Joseph J. Cohen, M.D., and Constance Lebair, M.S. 84

Attempts to Enhance Virulence of Haemophilus Pertussis by Serial Passage in Guinea Pigs. John A. Toomey, M.D., and William S. Takacs, B.S., Cleveland 94

Glutathione and Red Cells in the Blood in Infancy and in Childhood. Helen McNamara, M.A., and M. J. E. Senn, M.D., New York 97

Growth and Chemical Composition of the Human Skeleton. W. W. Swanson, M.D., and Vivian Iob, Ph.D., Chicago 107

Growth, Development and Care of the Child. Harry Bakwin, M.D., and Ruth Morris Bakwin, M.D., New York 112

Case Reports:

Glycosuria in Lead Poisoning: Report of a Case and Study of Pathogenesis. Elvira Goettsch, M.D., and Howard H. Mason, M.D., New York 119

Ehlers-Danlos Syndrome (Cutis Hyperelastica). Meyeron Coe, M.D., Queens Village, N. Y., and Seymour H. Silvers, M.D., Brooklyn 129

Torsion of the Spermatic Cord in Infancy. Philip D. Allen, M.D., and Thomas H. Andrews, M.D., New York 136

Progress in Pediatrics:

Lipodystrophy: Report of a Case, with Metabolic Studies. J. S. Harris, M.D., and R. Reiser, Ph.D., Durham, N. C. 143

News and Comment 167

Notices:

Cumulated Index of the American Journal of Diseases of Children 168

JANUARY—*Continued*

PAGE

Correspondence:
Causes of Premature Birth. D. P. R. Keizer, M.D., Surabaya, Java, Netherland East Indies ... 169

Obituaries:
Henry Dietrich, M.D. ... 170

Abstracts from Current Literature ... 172

Society Transactions:
Chicago Pediatric Society ... 207

Book Reviews ... 211

Directory of Pediatric Societies ... 212

FEBRUARY 1940. NUMBER 2

Noma. Albert Eckstein, M.D., Ankara, Turkey ... 219

The Diabetic Child: An Analytic Study of His Development. G. D. Brown, M.D., Berkeley, Calif., and W. H. Thompson, M.D., Minneapolis ... 238

Individual Growth Records of Two Healthy Girls from Birth to Maturity. H. Gray, M.D., and H. K. Faber, M.D., San Francisco ... 255

Human Hemolytic Streptococci from Diseases of Children. Paul L. Boisvert, M.D., New Haven, Conn ... 281

Factors Influencing Retention of Nitrogen and Calcium in Period of Growth: III. Puberty in the Normal Girl and in the Girl with the Minimal Reinfection Type of Tuberculosis. Joseph A. Johnston, M.D., Detroit ... 287

Use of Combination Microhemopipet, with Special Reference to Sedimentation Rate, Packed Cell Volume and Icteric Index in Pediatric Practice. Katsuji Kato, M.D., Ph.D., Chicago ... 310

Smallpox Vaccination of Newborn Infants with Culture Virus and with Calf Lymph Virus: A Comparative Study of Intradermal and Cutaneous Vaccination with the Two Viruses in Over a Thousand Infants. H. H. Donnally, M.D.; M. M. Nicholson, M.D.; W. S. Anderson, M.D., and M. H. Grosvenor, M.D., Washington, D. C. ... 322

Stabilization of the Diabetic Child. Robert L. Jackson, M.D.; Julian D. Boyd, M.D., and Thelma E. Smith, R.N., Iowa City ... 332

Diphtheria Immunity and Frequency Distribution Curves for Antitoxin. H. E. Thelander, M.D., San Francisco ... 342

Case Reports:
Hypertension in Early Childhood. H. Chandler Clark, M.D., New Rochelle, N. Y. ... 353
Paroxysmal Tachycardia: Report of Two Cases. John D. Keith, M.D., and Alan Brown, M.D., F.R.C.P. (C), Toronto, Canada ... 362
Hereditary Epidermolysis Bullosa: Report of a Case with a Résumé of the Literature. Leonard T. Davidson, M.D., New York ... 371
Progeria: Report of a Classic Case with a Review of the Literature Since 1929. Edward Clay Mitchell, M.D., and David W. Goltman, M.D., Memphis, Tenn ... 379
Diabetes Mellitus in One of Identical Twins. Alfred E. Fischer, M.D., New York ... 386

Abstracts from Current Literature ... 394

Society Transactions:
New York Academy of Medicine, Section of Pediatrics ... 444

News and Comment ... 449

Notices:
Cumulated Index of the American Journal of Diseases of Children ... 450

Book Reviews ... 451

Directory of Pediatric Societies ... 452

MARCH 1940. NUMBER 3

PAGE

Life Histories of Ninety-Five Children with Chronic Ulcerative Colitis: A Statistical Study Based on Comparison with a Whole Group of Eight Hundred and Seventy-One Patients. Raymond J. Jackman, M.D.; J. Arnold Bargen, M.D., and Henry F. Helmholz, M.D., Rochester, Minn... 459

Disseminated Giant Cell Reaction: A Possible Prodrome of Measles. Walter A. Stryker, Chicago..... 468

Studies in Immunity: VI. Correlation of the Reaction to the Schick Test and the Diphtheria Antitoxin Content of the Blood Serum in Children with Scarlet Fever. Carl E. Duffy, M.S., and A. Graeme Mitchell, M.D., Cincinnati 479

Effects of Natural and Refined Sugars on Oral Lactobacilli and Caries Among Primitive Eskimos. Donald B. Waugh, D.D.S., and Leuman M. Waugh, D.D.S., with the Technical Assistance of Marjorie P. Waugh, New York. 483

Enuresis in Neglected Children. Erwin Wexberg, M.D., New Orleans..... 490

Treatment of Pneumonia by Sulfapyridine and by Hydroxyethylapocupreine Dihydrochloride. Maud L. Menten, M.D., Ph.D.; Robert R. Macdonald, M.D., and Natalie Brönykovsky, B.S., Pittsburgh..... 497

Etiologic Studies of Sporadic Cases of Encephalitis Occurring in the St. Louis Area in 1938. Margaret G. Smith, M.D.; Edwin H. Lennette, M.D., and Russell J. Blattner, M.D., St. Louis..... 509

Treatment of Pertussis with a Detoxified Antigen. Nathan M. Greenstein, M.D., and Walter Levy, M.D., New York..... 515

Cerebral Sclerosis. A. B. Baker, M.D., and L. S. Gerber, M.B., Minneapolis.. 522

Basal Metabolism of Tuberculous Children: V. Tuberculous Pleurisy. Anne Topper, M.D., and Harold S. Rubin, M.D., New York..... 535

Dextrose Tolerance Tests of the Newborn. Rose C. Ketteringham, B.S., Cleveland 542

Case Reports:

Surgical Obliteration of a Patent Ductus Arteriosus in a 7 Year Old Girl. Robert E. Gross, M.D.; Paul Emerson, M.D., and Hyman Green, M.D., Boston..... 554

Refractory Rickets. Harry Bakwin, M.D.; Oscar Bodansky, M.D., and Richard Schorr, M.D., New York..... 560

Productive Aortitis with Multiple Aneurysms in a Child. Benjamin H. Neiman, M.D., Chicago, and Meyer B. Marks, M.D., Miami Beach, Fla. 571

Progress in Pediatrics:

Neoplasms Producing Endocrine Disturbances in Childhood. Robert E. Gross, M.D., Boston..... 579

Abstracts from Current Literature..... 629

Society Transactions:

Chicago Pediatric Society..... 675

Book Reviews..... 681

News and Comment..... 684

Directory of Pediatric Societies..... 685

APRIL 1940. NUMBER 4

Tetanus in Childhood, with Special Reference to Treatment. Harry F. Dietrich, M.D., Beverly Hills, Calif..... 693

Sulfapyridine in the Treatment of Pneumonia in Infants and in Children: Report on Fifty-Eight Treated Patients and Fifty-Six Controls. John P. Scott, M.D., Philadelphia..... 711

APRIL—*Continued*

PAGE

Focal Epileptogenic Lesions of Birth and Infancy, with Report of Eight Cases. Wilder Penfield, M.D., and Haddow M. Keith, M.D., Montreal, Canada... 718

Obesity in Childhood: III. Physiologic and Psychologic Aspects of the Food Intake of Obese Children. Hilde Bruch, M.D., New York..... 739

Hypoaminoacidemia in Children with Nephrotic Crises. Lee E. Farr, M.D., and Douglas A. MacFadyen, M.D., New York..... 782

Giardiasis. Peter V. Véghelyi, M.D., Budapest, Hungary..... 793

Hands and Wrists of the Diabetic Child: A Roentgenologic Study. Isabel K. Bogan, M.D., Boston..... 805

A Study of Two Hundred and Forty Breast-Fed and Artificially Fed Infants in the St. Louis Area: I. A Comparison of Prophylactic Antirachitic Effects of 135 and 200 Unit Irradiated Evaporated Milks, 200 Unit Irradiated Fresh Milk and Human and Nonirradiated Evaporated Milk Fortified with 800 to 1,000 Units of Vitamin D as Viosterol. Edith C. Robinson, M.D., St. Louis..... 816

Case Reports:

Cooley's Syndrome (Erythroblastic Anemia) in a Chinese Child. L. Paul Foster, M.D., Orlando, Fla..... 828

Bromide Intoxication: Its Occurrence in a Child of Four Years. Lloyd E. Harris, M.D., Chicago..... 835

So-Called Congenital Idiopathic Hypertrophy of the Heart. Ben Benjamin, M.D., and Morris A. Simon, M.D., Montreal, Canada..... 842

News and Comment..... 852

Obituaries:

David Murray Cowie, M.D..... 853

Dewitt H. Sherman, M.D..... 855

Abstracts from Current Literature..... 857

Society Transactions:

Chicago Pediatric Society..... 908

Book Reviews..... 918

Directory of Pediatric Societies..... 923

MAY 1940. NUMBER 5

Congenital Cranial Osteoporosis: Its Etiology and Significance; a Study of Eight Hundred Newborn Infants. Oscar Reiss, M.D., and Elena Boder, M.D., Los Angeles..... 931

A Study of Two Hundred and Forty Breast-Fed and Artificially Fed Infants in the St. Louis Area: II. Incidence of Rashes and Gastrointestinal Disturbances in Breast-Fed Infants and in Infants Fed on Fresh Milk Formulas and on Acidified (Lactic Acid) and Nonacidified Evaporated Milk Formulas. Edith C. Robinson, M.D., St. Louis..... 1002

Factors Influencing Appearance of Centers of Ossification During Early Childhood: II. A Comparative Study of Degree of Epiphysial Ossification in Infancy Under Varying Conditions of Diet and Health. Carl C. Francis, M.D., Cleveland..... 1006

Enuresis: A Study of Causes, Types and Therapeutic Results. Lloyd Stockwell, M.D., and Clinton K. Smith, M.D., Kansas City, Mo..... 1013

Tuberculosis: A Follow-Up Study of Children at Lymanhurst Health Center. Chester A. Stewart, M.D., Minneapolis..... 1034

Interchangeability of Zinc Crystalline Insulin and Amorphous Insulin. R. L. Jackson, M.D.; Julian D. Boyd, M.D., and Thelma Smith, R.N., Iowa City..... 1050

MAY—*Continued*

PAGE

Probable Mechanism of the "Physiologic" Hypoprothrombinemia of the Newborn. Leandro M. Tocantins, M.D., Philadelphia 1054

Case Reports:

Treatment of Ritter's Disease with Sulfapyridine: Report of a Case with Recovery. Nelson W. Ryan, M.D., and Leon Goldman, M.D., Cincinnati 1057

Capillary Hemangioma with Extensive Purpura: Report of a Case. Haig H. Kasabach, M.D., and Katharine K. Merritt, M.D., New York 1063

Localized Absence of the Ganglion Cells of the Myenteric Plexus in Congenital Megacolon. Mary Elizabeth Tiffin, M.D.; Loren Roscoe Chandler, M.D., and Harold K. Faber, M.D., San Francisco 1071

Progress in Pediatrics:

Gonorrheal Vaginitis in Children: A Review of the Literature. Reuel A. Benson, M.D., and Irving Weinstock, M.D., New York 1083

News and Comment 1097

Obituaries:

Glenn E. Cullen, Ph.D. 1098

Abstracts from Current Literature 1099

Society Transactions:

Chicago Pediatric Society 1153

Book Reviews 1156

Directory of Pediatric Societies 1159

JUNE 1940. NUMBER 6

Clinical Studies of Vitamin A in Infants and in Children. Charles D. May, M.D., and Kenneth D. Blackfan, M.D., Boston; John F. McCreary, M.D., Toronto, Canada, and Fred H. Allen Jr., M.D., Holyoke, Mass. 1167

Respiratory Metabolism in Infancy and in Childhood: XXIII. Daily Energy Requirements of Premature Infants. H. H. Gordon, M.D.; S. Z. Levine, M.D.; W. C. Deamer, M.D., and H. McNamara, M.A., New York 1185

Distorted Speech in Young Children. Isaac W. Karlin, M.D.; Adella C. Youtz, Ph.D., and Lou Kennedy, Ph.D., Brooklyn 1203

Effect of Irradiation of the Air in a Ward on the Incidence of Infections of the Respiratory Tract. L. H. Barenberg, M.D.; David Greene, M.D., and Leon Greenspan, M.D., New York 1219

VIII. Background and Social Adjustment of Thyroid-Deficient Children Receiving Glandular Therapy. Joyce W. McDonald, M.S.S.; Andrew W. Brown, Ph.D., and I. P. Bronstein, M.D., Chicago 1227

Transitory Synovitis of the Hip Joint in Children. Solomon Rauch, M.D., Brooklyn 1245

Duration of Immunity to Diphtheria Achieved by Toxin-Antitoxin and Alum-Precipitated Toxoid. William B. Nevius, M.D., and Ada C. McGrath, R.N., East Orange, N. J. 1266

Case Reports:

Periarteritis Nodosa Complicating Scarlet Fever, with an Unusual Syndrome of Nephritis and Polyneuritis. Archibald L. Hoyne, M.D., and Matthew M. Steiner, M.D., Chicago 1271

Imperforate Hymen Causing Hydrocolpos, Hydroureter, Hydronephrosis and Pyuria: Its Occurrence in an Infant. Camille Kereszturi, M.D., New York 1290

The Febrile Type of Erythema Multiforme. Jerome S. Leopold, M.D., New York 1298

JUNE—*Continued*

PAGE

Progress in Pediatrics:
Cirrhosis of the Liver in Children. George T. Harrell, M.D., and Angus McBryde, M.D., Durham, N. C. ... 1301

Obituaries:
John Lovett Morse, M.D. ... 1328

News and Comment ... 1330

Abstracts from Current Literature ... 1331

Society Transactions:
Chicago Pediatric Society ... 1385

Book Reviews ... 1392

Directory of Pediatric Societies ... 1400

General Index ... 1407